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DATE: 11/2/62 NEVIEWER: 064540

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11 Rovember 1960

PERCEASED FOR : Chief, Development Branch, DFD-DD/F

SUMJECT

Approved For Release 2001/07/27 : CIA-RDP81B00879R001000030099-4

: Trip Report of Visit to Lockheed Aircraft Parility

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- 1. On 27 and 28 Getober 1960, 200 visited the Loukheed Burbank facility. The purpose of the visit was to discuss the preflight precedures and the proposed flight test progress for the 1-12.
- 2. Lockbeed does not foresoo any timing problem in the preflight process affecting the operational willightion of the weblice. That portion of the profilent inspection and residence to be accomplished by Losineed with any necessary assist from Pratt and whitney, will pertain to aircraft mystem checks and servicing except for feel. This over-all check of the sirplens can be accomplished well shows of any anticipated operational utilization and beld in a "stard-by" condition. Such a preparation can be done as much as a day or two prior to flight although such a time delay is not desirable.
- 3. Although some basic thought has been given to the flight test program, no detailed study has been made. Present plans call for complete flight test instrumentation on aircraft No. 1 for stability, control, and performance testing. In midition, simplene No. 2 will have complete engine instrumentation. Airplans No. 2 has been essigned the mission of system tests of the payload, INS, antopilot, and anti-radar studies. Since the rate of progress in speed is a direct function of proven eafety in test on No. 1 for use in the accolorated program, it does not seen very practical to put all of this type of work on one aircraft.

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4. The flight test area has not been defined. Preliminary plans call for conducting all AS testing over water in the area of Sents Rose Island. Since the problem exists in maintaining the posses with the general public, this will probably ment subscorie flight to and from the test area. This creates two basic problems.

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Firstly, it means approximately 40 to 45 minutes of relatively useless flight time in each direction. This is compounded by the amount of fuel used and thus requires in-flight refusing quite early in the test program. Secondly, in order to fly a subscrip profile to the test area, the airpians will probably fly at a relatively low altitude. This could sause a serious compresses in the security of the program. The proposed test area for the other siruraft runs generally in a northerly direction from take-off. To stay within the limits of the sectionated U. S., this gives a straight run of only 750 namical miles. After the 250 miles used in the normal climb, this 500 mile run will be accomplished in approximately 16 minutes. Also, this area crosses four sirveys including the primary commercial airway to the Sections airways including the primary commercial airway to the Sections airways including the primary commercial airway to the Sections airways including the primary commercial airway to the Sections of the sections area.

- the use of the F-104 as the chase plane in the test program. Since the F-104 is as fast as any fighter swellable, it would offer good potential as a chase plane. However, no simplane in the Air Force inventory will adequately chase the A-12 in the speed regime of primary interest and concern, i.e., above Fach 2.5. Therefore, the F-101 may be a more desirable vehicle for the chase program. The F-101 offers many advantages as a training vehicle in addition to sufficing as a chase plane. Since the F-101 is a tein engine airplane, practice is afforded in tein throttle manipulation and practice of engine out ecaditions. The F-101 also has the boom IFA system to provide practice of this type prior to actual hook-ups in the A-12. The F-104 has the capability of providing chase to higher speeds than the F-101. Both aircraft have two seat models for utilization in a photo chase mission.
- 6. Discussions were held with Mr. Schalk regarding the flight simulator studies. As a general suspection, it is required to have all systems operating properly for successful mission accomplishment. Loss of stability suggestation about any axis results in unsatisfactory flying characteristics. The redundancy of the SAS should prevent such a loss until such time as a satisfactory flight condition can be achieved. It is possible to land the airplane if either the Mach trin or pitch damper is operative; however, the Mach trin must be operative for successful IFR. All data thus far are based on rigid simplane parameters and theory. The flexible data impute will be incorporated in the next series of tests scheduled for early December.

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the limited prompt of flexible sirerest data. With only a very few points of data available, the transce show a relatively large destabilising influence caused by auroclasticity. In all cases investigated, the simplers changed from a stable condition to an unstable vehicle. While this tendency does help reduce the trim drag of the sirerest, it increases the requirements of the SAS and extendible. The sirerest bending under a 2.5g logi shows as much as a inches of deflection. Bending of both the mose and tall is document under this condition. Further studies are in progress.

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